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(54) Title: **TRANSGENIC NON-HUMAN ANIMALS WITH EXPANDED MATURE B CELL AND PLASMA CELL POPULA-
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(57) Abstract: Transgenic non-human animals with expanded mature B cell and plasma cell populations are described, as well as methods of using the transgenic non-human animals to screen for pharmaceutically active agents and to produce targeted antibodies.

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INTERNATIONAL SEARCH REPORT

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PCT/US03/33221

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/00; C12P 21/00; A01K 67/027, 67/033; C12N 15/00, 15/87
US CL : 800/3, 4, 6, 13, 18; 435/320.1, 325, 455

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 800/3, 4, 6, 13, 18; 435/320.1, 325, 455

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched (None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ZORNIG. M. Survival and death of prelymphomatous B-cells from N-myc/bcl/2 double transgenic mice correlates with the regulation of intracellular Casp 2sup + fluxes. Oncogene. 1995, Vol. 11, pages 2165-2174, see entire document.	1-22
Y	MEYER. K. B. Induction of the Igkappa 3' enhancer by distinct pathways can be inhibited by cross-linking of the CD40 receptor. Eur. J. Immunol. 1999, Vol. 29, pages 872-877, see entire document.	1-22
Y	GRILLOT. D. A. M. et al. bcl-x exhibits regulated expression during B cell development and activation and modulates lymphocyte survival in transgenic mice. J. Exp. Med. February 1996, Vol. 183, pages 381-391, see entire document.	1-22
Y	HENTUNEN. T. A. et al. Characterization of immunotized osteoclast precursors developed from mice transgenic for both bcl-xl and simian virus 40 large T antigen. Endocrinology. 1999, Vol. 140, No. 7, pages 2954-2961, see entire document.	1-22

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	
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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TAKAHASHI. Y. et al. Relaxed negative selection in germinal centers and impaired affinity maturation in bcl-xl transgenic mice. J. Exp. Med. 02 August 1999, Vol. 190, No. 3, pages 399-409, see entire document.	1-22

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

DIALOG-Medline, Embase, Cancerlit, Scisearch, Biosis; BRS/EAST-USPatful, EPO, JPO, Derwint, PG-PUBS
search terms: double transgenic, bcl-xl, bcl-2, bcl-w, myc, enhancer, kappa light chain